CONTENTS OF VOLUME 3

NUMBERS 1–2

A Hydrocyclone Separation Model in Consideration of the Turbulent Multi-Phase Flow
Heinrich Schubert 1

Liberation of Target Material from Locked Particles: A Theoretical Analysis
Thomas P. Meloy and Nigel Clark 15

Size Distribution of Clusters Inherent in Random Dispersions of Equal Spheres with a Coagulation Radius
Keishi Gotoh, Masafumi Nakagawa, and Hiroyuki Matsuoka 27

Measurement of the Kinetics of Solution Droplets in a Continuously Mixed Chamber
Glenn O. Rubel and James W. Gentry 37

Indications of Grinding Mill Operations by Mill Noise Parameters
John L. Watson and Scott D. Morrison 49

Study on Casing Performances in Centrifugal Slurry Pumps
M. C. Roco, G. R. Addi and R. Visintainer 65

FOLLOWING PAGE 88:
Proceedings of the Fine Particle Society

NUMBERS 3–4

Periodicity and Fine Structure in Two-Dimensional Gravitational Random Packing
E. M. Tory, C. B. Yhap, and D. K. Pickard 89

Submicron Magnetic Particle Separation
David R. Kelland 101

Field Dependence of Particle Electrophorectic Mobility in Nonpolar Liquids
Barry M. Verdegan, James G. Draxler, and Harold W. Fenrick 115

CONTENTS OF VOLUME 3

NUMBERS 1–2

A Hydrocyclone Separation Model in Consideration of the Turbulent Multi-Phase Flow
Heinrich Schubert 1

Liberation of Target Material from Locked Particles: A Theoretical Analysis
Thomas P. Meloy and Nigel Clark 15

Size Distribution of Clusters Inherent in Random Dispersions of Equal Spheres with a Coagulation Radius
Keishi Gotoh, Masafumi Nakagawa, and Hiroyuki Matsuoka 27

Measurement of the Kinetics of Solution Droplets in a Continuously Mixed Chamber
Glenn O. Rubel and James W. Gentry 37

Indications of Grinding Mill Operations by Mill Noise Parameters
John L. Watson and Scott D. Morrison 49

Study on Casing Performances in Centrifugal Slurry Pumps
M. C. Roco, G. R. Addi and R. Visintainer 65

FOLLOWING PAGE 88:
Proceedings of the Fine Particle Society

NUMBERS 3–4

Periodicity and Fine Structure in Two-Dimensional Gravitational Random Packing
E. M. Tory, C. B. Yhap, and D. K. Pickard 89

Submicron Magnetic Particle Separation
David R. Kelland 101

Field Dependence of Particle Electrophorectic Mobility in Nonpolar Liquids
Barry M. Verdegan, James G. Draxler, and Harold W. Fenrick 115

Interaction of Gravity and Electrostatic Effects
in Pipe Flow of a Gas-Particle Suspension
S. Nieh, B. T. Chao, and S. L. Soo **127**

Particle Dispersion by Coherent Structures in Free Shear Flows
C. T. Crowe, R. A. Gore, and T. R. Troutt **149**

A Method for Characterizing Dust Deflagration
Behavior for Application to Vent Relief Design
S. Chippett and L. G. Britton **159**

Room-Type Air Cleaner Design Criteria and Prototype Performance
A. R. McFarland, C. A. Ortiz, D. I. Dennis, Jr., and R. B. Bingham **179**

An Improved Numerical Method for One-Dimensional
Unsteady Pneumatic Transport in a Turbulent Horizontal Flow
at High Loading
Gui-Sen Lian and Yue-Nan Chen **191**

FOLLOWING PAGE 204:
Proceedings of the Fine Particle Society

Title Page to Volume 3
Contents of Volume 3
Author Index to Volume 3
Subject Index to Volume 3